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Abstract

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Location of a mutation resistant to cobalt and nickel in LG IIIR of *Neurospora crassa*

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cor is resistant to 10 mM Co2+ or 10 mM Ni2+. It was induced in ORS-6a (FGSC 4200) by serial transfers on cobalt-containing (32 mM) agar medium as described by Venkateswerlu and Sivarama Sastry (Biochem J. 132:673-680). A cross of *cor* to *alcoy* indicated a location in linkage group III. It was then crossed to *acr-2 trp-1 dow*. 98 spores germinated and gave the following results:

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Parental                        Double crossovers
     acr  trp  dow   +   28         acr   +   dow   +    4
      +    +    +   cor  22          +   trp   +   cor   2
                                     +   trp  dow  cor   1
Single crossovers
     acr  trp   +   cor  15      Simple recombination percentages:
      +    +   dow   +   12        cor-acr        41.8
                                   cor-trp        34.7
     acr   +    +   cor   5        cor-dow         1.0
      +   trp  dow   +    9
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